

February 19, 2003

MODIS sensor Working Group (MsWG) Summary

Attendance: Bill Barnes, Stuart Biggar, Vincent Chiang, Roger Drake, Bob Evans, Junqiang Sun, Gary Toller, Jack Xiong, Eric Vermote, Zhengming Wan, Joe Esposito

Scheduled Items

Item 1 Instrument Status

JX) Flight Ops are not in today due to GSFC Code Red (snow). Cannot get current instrument status.

Item 2 Instrument Calibration and Characterization Status

JX) Impact of test on Terra m1 fluctuations. Only 1 day of data was taken. We have checked if data is sufficient for the test. Need to reschedule the test again.

JX) Terra updated LUT deliveries are currently on 2-week intervals
Aqua updated LUT deliveries are currently monthly.

Item 3 Aqua SRCA lamp stability

JX) We are trending the current, voltage, and feedback current. The smooth portions of FM1 20-30W lamp data seen in the attachments from the last MsWG meeting are due to sampling data over several scans/granules rather than every scan.

RD) Looked at pre-flight and found that lamp #2 is the problem. The radiance feedback is working. (JX – Is the feedback voltage 8 bit?) All outputs, current, voltage and feedback are 12 bit.

In TV, we turned on each 10W lamp and normalized the response to lamp #1. Found lamp #2 has different spectral characteristics. 20W use lamps 1 and 2 whereas 30W uses lamps 1, 2, and 3. Spectral content change causes SRCA differences.

SB) Lamps used in laboratory under the same conditions may not start up at the same level.

JX) Time allowed for each lamp to reach level. Suggest we schedule a test using each lamp alone to find problematic lamp[s] (similar to pre-flight test that was done). *Action: JX and RD to discuss test.*

Item 4 DSM for Terra

JX) DSM is scheduled for March 26, 2003. Recent snowstorm may impact on this schedule. The second DSM, to be coordinated with SeaWifs, looking at the moon is still scheduled for April 14, 2003

Item 5 ST meeting

JX) Have put together a Terra package for the last 6 months. A simpler package has also been put together for Aqua. The package[s] is very brief.
The 3-year anniversary of opening the Terra NADIR is occurs next week. A package containing trending of calibration data is being assembled:

m1 trending, monthly SRCA radiance, bi-monthly SRCA spatial, quarterly SRCA spectral, quarterly BB, bi-monthly Ecal, and lunar observations (roughly 10 per year). The lunar trending will be for all bands. The 3-year package will not be mailed due to size and will be placed on FTP site and mailed on CD.

Around the Table

Participant: Jack Xiong – MCST is interested in new Arizona comparison data.
Sill waiting for charts from Miami

Participant: Zhengming Wan – Semi-annual report sent to Vince (contains recent results).

Participant: Bob Evans – Progress processing the green data (9-10%) and blue data (6-8%) to MOBY.
Uncertainty in MOBY is roughly 5%. Miami is doing outstanding in fluorescence bands, attempting to get 1%. Still need to balance red bands.

EV) Is Miami happy with the polarization correction?

BE) Yes, but the correction is not equal for all detectors. Can see that the polarization correction is not perfect but we are doing better than before.

EV) Is the new polarization correction being applied to the data?

BE) In the next go round. Polarization measurements are better than before and we are currently using individual detector corrections.

Next MsWG Meeting Tentatively March 5, 2003.
Will Email meeting date next week after MCST move.